



# THE RARA RAG

Newsletter of The Rochester Amateur Radio Association, Inc.  
Founded in 1931

AUGUST 2019  
VOLUME 71, ISSUE 12A

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## CPR AND EARLY DEFIBRILLATION SAVES LIVES

SCOTT THEIS, W2LW, RARA VICE PRESIDENT

Part of being a Ham is being ready for emergency situations. Sometimes being prepared is not only about our radio gear but about our skills in dealing with a variety of situations. For our August meeting, Tim Brown, WB2PAY, will be giving an overview of CPR (Cardiopulmonary Resuscitation) and AED (Automated External Defibrillator).

Tim will cover CPR facts and stats, the difference between sudden cardiac arrest (SCA) and heart attack, the signs and symptoms of SCA, and the case for early CPR and defibrillation, as well as performing a CPR demonstration and an AED demonstration. Tim will also be happy to answer any questions.

This demonstration is meant to introduce you to CPR. Tim will help point members to formal training programs in the area.

In addition to being a RARA board member and the club's Education Coordinator, Tim is a retired paramedic with 35 years experience with the Greece Volunteer Ambulance Service and is a Certified AHA CPR and First Aid Instructor.

Please join us on Wednesday, August 7th, 2019, 7:00PM at the Boy Scouts Headquarters at 2320 Brighton Henrietta Townline Road, Rochester, New York 14623.



*Courtesy Vecteezy.com*

# RARA



## BOARDZ BUZZ

TIM GUYOT, KB2POP, RARA PRESIDENT

### A year in review...

It amazes me how fast this has come. I feel like I've just gotten into the swing of things and almost a year has passed. When I started, I had three goals: Improve on the events and services we do each year, drive membership, and promote operating opportunities eventually leading to a club station.

Our programming this year has been excellent, and I take little credit for it. It's very hard to make sure that we have an engaging speaker each month, and Scott Theis has done a great job. Thanks to Tim Barrett and Tim Brown, the Winterfest and Picnic went off without a hitch. Attendance and participation at both were up over last year. Of course, I think we all know what a success RARA Academy has been. Thanks to Tim Brown and his team of Elmers and experimenters for putting those classes together.

I haven't done as good a job at driving membership as I'd hoped. We're close to beating last year at this time, but didn't quite make it. I do however feel that the club is strong and on an excellent trajectory for stability and some growth in the coming year.

With regards to operating events, we got some great time on the air at: RARA Academy, Winterfest, the Picnic, and later in August RARA will be participating in ILLW, International Lighthouse Lightship Weekend, at the Charlotte Lighthouse. On top of managing our books, Brian O'Connor has always made sure that our radios are ready to go whenever the club needs them, and Dave Timmons will be overseeing ILLW weekend. Scott has been leading a group to define requirements for a club station that will be presented to the next board whose job it will be to determine possible locations.

There are some members not mentioned above without whom the club would not function correctly. See the second to last page of The Rag for all of the officers, directors, and coordinators who make the club successful. I want to thank everyone that's contributed to the club (this includes volunteering for our Public Service events) for aiding in our continued success!

### August Raffle prizes are pictured below:

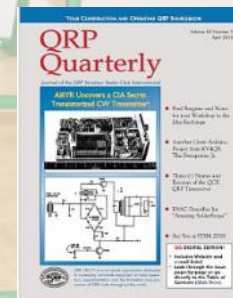
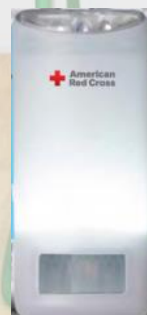
- 1 Year Subscription to QRP Quarterly
- Mosley Anti Corrosion / Weather Guard
- CHA EMCOMM III Portable Antenna
  - Black Out Buddy

### Coming in September

Ham Radio Deluxe Gift Certificate

Maxcon OCF-3K80 Antenna

And MORE



## CALENDAR OF EVENTS

**WEDNESDAY AUGUST 7, 2019** - RARA General Meeting  
7:00 PM at BSA Headquarters  
2320 Brighton Henrietta Town Line Rd

**THURSDAY AUGUST 8, 2019** - RARA Board of Directors Meeting  
5:45 PM at Novaworks, 333 Metro Park, F-500

**Saturday and Sunday August 17 & 18, 2019**  
International Lighthouse Lightship Weekend

**Wednesday September 4, 2019** - RARA Business and General Meeting

**Friday September 20, 2019** - RARA Banquet  
Burgundy Basin Inn

# PUBLIC SERVICE

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

The next RARA Public Service Event will be the Multiple Sclerosis Society ROC the Ride Event which will be held August 24 at the Genesee Valley Park. For more information on this event visit our own [RARA website](#) to sign up to be on the communications team or [Bike MS: ROC the Ride](#) for more information about the event. Phil, K2ELV is the RARA team captain for this event.



This event supports a very worthy cause. It starts out in Genesee Valley Park, heading south from there. A minimum of ten (10) ham operators are needed for a half day cycling event consisting of three separate tour distances. We will provide communications for the event and specific tasks may include bike repair, van communications, rider escort safety communications, staff communications, and re-supply communications. We will provide safety communications for participants by summoning EMT's, as necessary, via Net Control. Go to [ROC the Ride Sign-Up](#) to sign up.

The 15th Annual Fairport Lift Bridge Regatta is scheduled for Saturday, September 28, 2019, at the Fairport Crew Club Boathouse, located on the Erie Canal near the bridge on Route 31F (Fairport Road). Racing will begin at 7 a.m. and ends about 2 p.m.

We are looking for HAMs to volunteer their time to provide communications for the Regatta. Twelve HAMs worked OK last year, but as captain for the team, I

would prefer a few more HAMs so we can have consistent shadows for racing officials, and still have positions available for those who cannot spend an entire day.

We start early—6:30 a.m. This allows everyone to get into position. Locations include the parking lots, start line (near Kreag Road Park), finish line (in Perinton Park), the ARES trailer, and around the boathouse (shadowing race officials). Racing takes a break for lunch, which is provided to volunteers.

Last year's regatta had 507 participants from 17 clubs (along with individual racers) competing in 37 races. Twelve individuals (mostly HAMs) handled communications for the races. They were stationed in boats, in fixed positions on land, and as "shadows" for race officials. Some came for the full day, some for part of the day. Almost all used HTs on a simplex frequency to keep the network apprised of the progress of the racing, and pass on news of a small traffic collision at the entrance to the parking, which delayed the start of racing by half an hour.

The master of ceremonies had access to our net last year and the constant flow of information allowed him to keep hundreds of spectators around the boathouse aware of what was happening through the PA system. HAMs are efficient at information transfer—which is what we're all about. The race officials recognize that we bring communications expertise to the regatta and ask us back year after year.

If you'd like to volunteer, please go to RARA's public service page and look for the link labeled Click to the right of the description. Thank you to the past volunteers and I look forward to welcoming you back this year, along with all who'd like to participate in the 15th annual regatta. Mark Pedersen, KC2UES, Captain, Fairport Lift Bridge Regatta Communications team.

Our neighbor clubs are great partners with us in the public service arena. [Squaw Island Amateur Radio Club \(SIARC\)](#) is planning for the Finger Lakes Triathlon. It will be held on Sunday, September 8, out of Canandaigua from about 6:30 AM to 2:00PM. They could use a minimum of 14 operators to do the event justice. It is a big event that SIARC supports every year for Safety Communications, especially on the bike course, that runs out to Gorham, down to Rushville, and back to Canandaigua. The event raises money for the Mary Gooley Hemophilia Center. If you would like to participate, please contact Tom Sanders [kb2nci@arrl.net](mailto:kb2nci@arrl.net). [STARRS](#) is looking for volunteers to operate D-Star and analog for the [2019 Wineglass Marathon](#) on Sunday, October 6. The marathon runs between Bath and Corning, NY and Randy Gudeahn N1PTB says, "It's a great time to show and share our skills." He is looking for operators with a D-Star radio and an android smartphone. He has BlueDV kits ready and will offer training in advance of the event on its use. These will be for use in the climate controlled buses and med tents. For more information watch the STARRS Facebook page : <https://www.facebook.com/StarrsAmateurRadioClub/>. Please contact Randy if you can help at [Ratchet1972@hotmail.com](mailto:Ratchet1972@hotmail.com) (607) 590-8556



Remaining events in the 2019 public service calendar are listed in the following table. Visit [https://rochesterham.org/public\\_service.htm](https://rochesterham.org/public_service.htm) for more information and to volunteer.

Bike MS: ROC the Ride	Genesee Valley Park Rochester, NY	Saturday	August 24, 2019
Fairport Lift Bridge Regatta	Erie Canal Fairport, NY	Saturday	Sept. 28, 2019
Jamboree On the Air	Camp Babcock Hovey	Saturday	Oct. 19, 2019
Pumpkin Patrol	Overpasses of the New York State Thruway	Wednesday & Thursday	Oct. 30-31, 2019
Holiday Science & Technology Day	Rochester Museum & Science Center	Saturday	Christmas Week

## EDUCATION

TIM BROWN, WB2PAY, EDUCATION COORDINATOR

### THE ELMERS CORNER

**Share your Amateur Radio experiences with other hams. Volunteer to host a 30 MIN. ELMERS CORNER session. Every Ham is an ELMER if they share their knowledge.**

Our next Elmers Corner will be at the August 7th Meeting from 6:15pm to 6:45pm prior to the start of the regular meeting.

The topic will be programming with CHIRP software. Baofeng, Jetstream and Yaesu cables will be available. Bring your rig and we will help you program it.

If your rig has a USB programming cable, please bring it to the session.

**Dave Timmons, W2DST, will host the August session**

**Karl Heinz Kremer, K5KHK, will host the September session**  
**Scott Theis, W2LW, will host the October session**

## RARA ACADEMY WORKSHOPS



### **September Academy** **STATION GROUNDING AND LIGHTNING PROTECTION** **Saturday September 14th, 2019 (10am-Noon)**

Session will be held at the [Irondequoit Library, Ontario Rm#113, 1290 Titus Ave, Rochester, NY 14617.](https://www.rochesterham.org/irondequoit-library)

#### **TOPICS FOR DISCUSSION:**

- Safety Grounds
- RF Grounds
- Lightning Protection

**Don Kiser, AC2EV, will host this Academy session**

Latest Academy information is available at [https://www.rochesterham.org/rara\\_academy.htm](https://www.rochesterham.org/rara_academy.htm)

## RARA LICENSE COURSES

### **2019 Fall License Classes**

If you are looking to learn new skills, upgrade your license, make new friends, and have some fun, sign up for the Fall session of RARA's license classes.

Amateur Technician, General and Extra Licensing classes will commence at 7pm on Tuesday September 17, 2019.

Classes run from 7- 9:30pm for 10 weeks with FREE testing on the 11th week.

Classes will be held at RIT in the GLEASON building #9, rooms TBD the first week in September.

For those taking the Extra Class, which is highly technical, John Vigiano, NV2K, will schedule individual sessions for students who register.

Licensing courses are FREE to **current** members and students and only \$15.00 for non-members.

**Not a current RARA member?**

**Membership starts at FREE!**

<https://www.rochesterham.org/membership.htm>

ARRL Licensing manuals may be purchased at the RARA August and September meetings and the first night of class for the discounted rate of \$25.00. Please make checks payable to RARA, or have the exact amount.

In order to keep you updated on any schedule changes, please pre-register <mailto:education@rochesterham.org>

**Please take advantage of these RARA sponsored training and operating opportunities.**

Sign up for Academy Workshops and License Courses by emailing <mailto:education@rochesterham.org>

## 2019 INTERNATIONAL LIGHTHOUSE LIGHTSHIP WEEKEND

DAVID TIMMONS, W2DST



### International Lighthouse Lightship Weekend

An annual amateur radio event - ILLW

Have you ever operated outdoors at a historic site? Have you ever seen the Port of Rochester from the top of a 197 year old lighthouse? You can do both and more by joining us for the 2019 International Lighthouse Lightship Weekend (ILLW) at the Charlotte-Genesee Lighthouse on Lake Ave. in Rochester's historic Charlotte neighborhood. This year the event is on August 17 & 18 and we will be operating (at least) 2 stations using special event call sign K2R from 11 am to 5 pm both days. Come help us operate and talk to lighthouse visitors about amateur radio. Yes, we do hang our antennas from the lighthouse tower!

An annual event since 1998, ILLW began as the Scottish Northern Lights Award run by the Ayr Amateur Radio Group. The history of the event can be found at <https://illw.net/>. This event has grown to attract over 500 lighthouse entries located in over 40 countries. This is a great event for all experience levels. It is not a contest and there are no prizes.

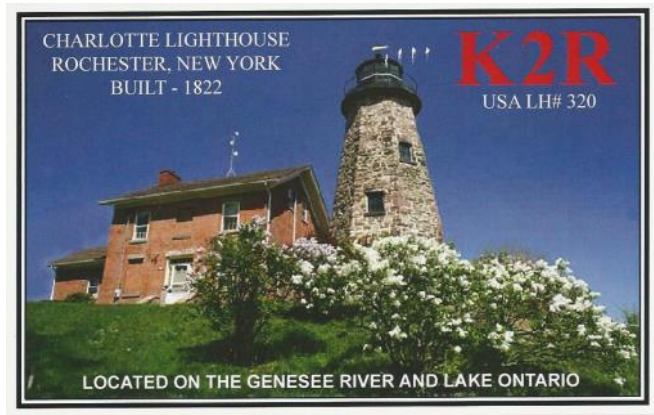
If you would like to help staff this event and get a tour of the lighthouse, sign up at: <https://www.rochesterham.org/operating.htm>



Here is a little more about the history of our Rochester lighthouse: Founded in 1983, the Charlotte-Genesee Lighthouse Historical Society's mission is to preserve and maintain the Genesee Lighthouse Tower (1822), the Lighthouse Keeper's House (1863), and its historic acreage as an educational center. Open to the public, local residents and visitors from around the world can learn the story of the Charlotte-Genesee Lighthouse, lock-ups of Charlotte, and saving Lives on Lake Ontario by the Government Agencies of Charlotte. There is also a display of Ontario Beach Park, marine history and the International Peace Garden.

As commercial marine trade increased, so did the need to establish a lighthouse for safely guiding boat traffic into and out of the "Port of the Genesee" whose entrance was partially blocked by sandbars. In 1822 the United States Government acquired the choice bluff site and solicited proposals to build a lighthouse, lantern, dwelling house and well, at the mouth of the Genesee. Another larger dwelling house was constructed in 1863.

The Light Station is open for regular visitation: April – October 2019, Fridays, Saturday & Sunday; 1 – 5 p.m. Other times by Appointment Only.



# VOLUNTEERS NEEDED FOR WINEGLASS MARATHON

MIKE MOORE, KC2NM, PUBLIC SERVICE COORDINATOR

RARA has received a request from Randy Gudeahn N1PTB. He is the president of **STARRS** and is looking for volunteers to operate D-Star and analog for the **2019 Wineglass Marathon** on Sunday, October 6. The marathon runs between Bath and Corning, NY and Randy says, "It's a great time to show and share our skills." He is looking for operators with a D-Star radio and an Android smartphone. He has BlueDV kits ready and will offer training in advance of the event on its use. These will be for use in the climate-controlled buses and med tents. For more information watch the STARRS Facebook page : <https://www.facebook.com/StarrsAmateurRadioClub/> . Please contact Randy if you can help at [Ratchet1972@hotmail.com](mailto:Ratchet1972@hotmail.com) (607) 590-8556

## WHAT IS FIELD DAY?

BOB KARZ, K2OID

Nominally it's a civil defense exercise to hone emergency communications skills, but practically speaking Field Day can be anything from a serious contest to a 24 hour party-plus-food binge. Our Field Day is somewhere in between.

This was the fourth year for the joint XRX and ARES Radio Clubs Field Day and the third year at the Webster Recreation Association site off Phillips Road in Webster.

What makes a great Field Day? It's not just the number of contacts, although we did make 180 more than last year and scored more points than ever. It's not just the weather, although sunny conditions Saturday and Sunday with temperatures in the 70's were just about perfect (except for a few sprinkles during set-up Friday). It's not just the food either, although Tim Brown (WB2PAY) and Jim "JD" Dermody (N2OYG) cooked us excellent meals. It's all of the above plus the opportunity for hams with varying skills and interests to join together to work towards a common goal while having fun doing it.

New this year was a satellite station run by Larry Keene (KD2LGX). It's the first time I've seen satellite communications in action, and it was fascinating. We also had a rather extensive VHF/UHF set up thanks to Jarred Jackson (KF2MR) and Harry Williams (KF2TV). Jarred and Harry also put our first FT-8 station on the air. It's amazing to see FT-8 making QSOs on a nearly "dead" band. In addition, Jim Herbst (KC2KNJ) who is Assistant Director of Public Safety Communications for Monroe County brought along the county emergency van with equipment he designed to patch together the multiple radio systems used across Western New York so we won't experience the communications failures such as occurred during 911. I've never learned so much at a Field Day!

Teamwork is an important aspect of any Field Day. With literally dozens of ele-

ments to a successful event (e.g. antennas, rigs, generators, shelter, safety, logging computers, GOTA station coaching, etc.), nearly everyone has an essential role. As FD chair, all I had to do was ask and it got done.

Our GOTA experience this year was especially gratifying with new and perspective hams waiting patiently in line to make QSOs nearly the entire time.



The GOTA Station in Action

It was a great Field Day by any measure. Our FD is opened to all. Thank you to all who were part of our effort. If you didn't participate this year, please consider joining us for FD 2020. You can view an excellent video of our FD prepared by Don Vallone (KD2REU) at <https://youtube/MBvL9tW8clQ>.

### Silent Key

David D. Selbert  
KA2BOK  
July 14, 2019



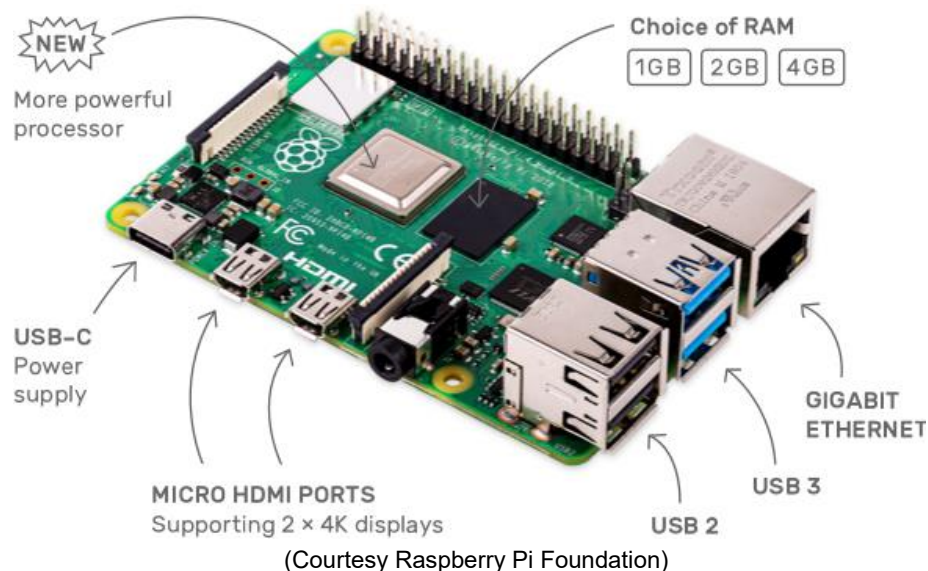
# THE RASPBERRY PI 4B

SCOTT THEIS, W2LW

The Raspberry Pi Foundation recently introduced its latest incarnation of the Pi series, the Pi 4. There has been a steady evolution of Pi computers over the last seven years from the Pi 1 to the Pi 4, which was released in June this year.

A key strength of the Raspberry Pi family has been the open source Linux based system coupled with a good set of GPIO pins and video interfacing. In addition, the Pi family clocks in as some of the cheapest yet most well-built and robust single board computers. The computing power level has started to rival low-cost desktop computers. As a side note, while the Pi has enjoyed enormous success in the DIY and maker communities, the original concept was to provide a low-cost computing platform to teach basic computing to students in developing countries. The Pi 4 has gone beyond to achieve the goal of rivaling low-end desktop performance, enough so that a “desktop kit” is available from the Pi Foundation.

So, what’s new?



The GPIO port configuration is the same, as well as the integrated video interfaces for an LCD or camera.

The Pi 4 features the same similar starting price of \$35 ranging to \$55 for the 4GB RAM configuration. I managed to purchase the 1GB and 2GB versions from Adafruit and CanaKit, respectively.

## Pi 3 versus Pi 4

A comparison of the last Pi 3B+ with the Pi 4B:

	Raspberry Pi 3 B+	Raspberry Pi 4 B
<b>Processor</b>	Broadcom BCM2837B0 (Cortex A-53)	Broadcom BCM2711B0 (Cortex A-72)
<b>Processor Cores</b>	4	4
<b>Processor Speed</b>	1.4	1.5-GHz
<b>RAM</b>	1GB DDR2	1GB, 2GB or 4GB DDR4
<b>USB Ports</b>	4–USB 2.0	2–USB 3.0 and 2–USB 2.0
<b>GPU</b>	400 MHz VideoCore IV	500 MHz VideoCore VI
<b>Video Out</b>	Single Standard HDMI port	Dual micro HDMI ports
<b>Max resolution</b>	2560 x 1600	1x 4K 60 Hz (+ 1080p) or 2x 4K 30 Hz
<b>Wired Networking</b>	330 Mbps Ethernet	Gigabit Ethernet
<b>Wi-Fi</b>	802.11ac (2.4 / 5 GHz)	802.11ac (2.4 / 5 GHz)
<b>Bluetooth</b>	4.1	5.0
<b>Power Port</b>	Micro USB	USB Type-C
<b>Power Requirements</b>	2.5A, 5V	3A, 5V

(Portions Courtesy Tom's Hardware)

Like previous models, the RAM is shared by the GPU and a certain amount of adjustment can be specified in the configuration file to control the split of memory. Having 4GB available allows for a lot more breathing room than the earlier models.

The Cortex A-72 architecture is considerably faster and more capable than the A-53 with better than doubling the number of instructions processed per MHz of processing speed (MIPs). When coupled with a larger cache and other improvements, the overall performance is nearly four times that of the Pi 3.

The addition of USB 3 ports significantly improves USB I/O throughput for compatible devices. With Gigabit Ethernet, network performance is also about four times better. On the other hand, Wi-Fi performance is only slightly better than the Pi 3 as limited by 802.11ac.

Of course, more speed means more power and heat. For example, the Pi 3 B+ running all out will draw about 6.5 watts, while the new Pi 4 B will draw more than 7.5 watts. This is not a bad trade for all the extra performance, but it does mean a larger power supply.

## Layout

The board geometry is nearly the same, but there are some very important differences. First, as you can see in the comparison photo (Pi 3 on top), the A-Type USB connectors and the network RJ45 jack are swapped. Certain existing cases may not adapt to that. Next, while the power input is still in a small form factor in the same location, the HDMI output is now replaced with two micro-HDMI connectors.



**Raspberry Pi 3 on Top, Pi 4 on Bottom**

The mounting holes are in the same locations as are the 3.5mm audio jack and the display and camera ribbon connectors. If you look closely next to the RJ45 jack, you can see a 4-pin header for PoE. This requires a separate board to process power supplied through the Ethernet cable (this was first available on the Pi 3 B+; the comparison picture has a Pi 3 that is a plain B).

If you look closely, you will see that the USB-C and micro HDMI connectors hang off the board by a millimeter or two. This immediately precluded me from installing the board into my 7" Pi Display. In order to make that work, the Dremel will be making a modification to the display case.

## Pros and Cons

I have seen some pretty amazing stuff performed by earlier models including DSP, video processing, and more. The Pi 4 B beefs up processing power and more importantly adds RAM. The video output offers a lot more flexibility, if you need it.

The new *de facto* operating system is Raspbian Buster, and there are several important software packages that are yet to be ported, including some python libraries. So some existing software may be delayed in running on the Pi 4.



**CanaKit 2GB Pi 4 Model B (note the Pi 3 picture on the booklet)**

## Test Drive

Installing Raspbian was a bit of a pain, I could not find a 32GB or 16GB micro SD. Apparently, the full version no longer can be installed on an 8GB card. The performance was not good, as the 8GB card was 2x SD speed. I reformatted a 32GB 10x card from my Pi 3 and that worked well. SD cards larger than 32GB are still not natively supported.

I ran without the heatsinks from CanaKit (see them taped to the power supply) and quickly realized that was not a good idea. The processor was nearly too hot to touch and hold, so the heat sinks were added while installing the O/S.

## Final Thoughts

For \$35, it is easy to try the Pi 4 out. However, like I said, this device likes more power so the conventional 2A USB power supply you used for a Pi 3 is not going to cut it.

I think to get the most out of the board I would want the full 4GB RAM configuration. As of this writing, they are sold out. In fact, I think I was lucky to manage to get the 2GB version from CanaKit. My Adafruit order has yet to ship. I am sure the shortage will ease in the coming months. Also, CanaKit obviously rushed their release, the provided manual is for the Pi 3.



## RARa ANNUAL PICNIC

There was great fun, food and a bunch of operating at the annual picnic. This year we moved down the road to the Cavalry Lodge which is a nice setup. Nick Roberts KD2RHU and son David with Tim Brown, WB2PAY, set up antennas. Brian O'Connor, KA2CGB, setup equipment and the club's end-fed antenna. Karl Heinz Kremer, K5KHK brought his Yaesu FT-857 with a vertical and Scott Theis, W2LW brought his new Xiegu G90 HF rig. Plus, we had the club's radios, Yaesu FT-450D and TenTec Omni V rigs. Several members made plenty of contacts on 20 and 40 meters while chowing down on good picnic food.

Special thanks to Tim Barrett and Tim Brown for working the grill. Tim Brown and Brian O'Connor for bring club equipment, and personal gear. Also, special thanks to Cathy Brown, KC2UAD, Carol Spath, Susan Aiello and LeeAnn Timmons, KD2FYA, who managed the set up and clean up of the kitchen and food. Thanks to all who brought food, and desserts, it was excellent!









## FREE (USED) Antenna Masts

- Two—22 foot (one piece) masts, 2 1/4" diameter
- Three—12 foot masts, 2 1/4" diameter
- Three—22 foot, 2 piece, masts, 2" diameter

Contact Jim Herbst  
[jimherbst4@gmail.com](mailto:jimherbst4@gmail.com)



## 12th Annual Keuka Lake Amateur Radio Association **HAMFEST** Saturday, August 17, 2019 Howard, NY

Just off I-86 at Exit 35

follow signs to the Howard Community Center

**Special instructions for GPS users:**

Some GPS systems will recognize 7481 Hopkins Rd., Howard, NY.  
 Since Howard, NY does not have a post office or ZIP Code,  
 some GPS systems will require 7481 Hopkins Rd., Avoca, NY 14809.  
 Or use coordinates 42.3618, -77.510.



**Talk-In**  
 on the KLARA  
 Repeater System

145.190 — Bath, NY  
 147.045 + Arkport, NY  
 147.330 + Cameron, NY  
 PL 110.9

**Admission  
 and  
 Breakfast**

\$5.00 admission includes  
 one outdoor flea market  
 space or one indoor table  
 space. Also available is a  
 full breakfast with eggs and  
 pancakes.  
 Never ending coffee!



### Friday Night Camping

Join us for free on-site overnight camping.  
 Self contained camping units only.  
 No electric. No water.  
 Yes, an enjoyable evening with very friendly hams.

**Campers Must RSVP**  
[keukalakeara@gmail.com](mailto:keukalakeara@gmail.com)



### KLARA/ARRL Testing

10:00am - a perfect time  
 to get your Ham Radio License  
 or upgrade to General or Extra

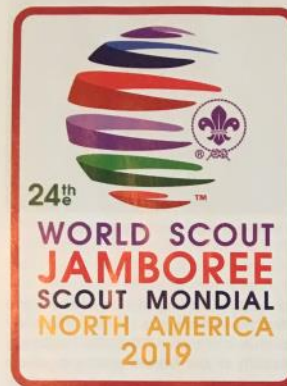
Visit us on Facebook:  
 Keuka Lake Amateur Radio Association  
 Visit us on the web:  
[klara.us](http://klara.us)  
 Contact us at:  
[keukalakeara@gmail.com](mailto:keukalakeara@gmail.com)

### Hamfest Schedule

7:00 Vendor Admission  
 7:30 Open to the Public  
 8:00 Breakfast Begins  
 8:30 1st Door Prize Drawing  
 9:00 2nd Door Prize Drawing  
 9:30 3rd Door Prize Drawing  
 10:00 4th Door Prize Drawing  
 10:00 VE Testing  
 10:30 5th Door Prize Drawing  
 11:00 50-50 Drawing and More  
 Door Prizes  
 Must be present to win prizes

Feature

# World Scout Jamboree – NA1WJ



Listen out for the Scout Jamboree  
 station, NA1WJ, in July and August.

the air using ten operating  
 stations on HF, VHF, UHF,  
 satellites, D-Star and  
 Echolink. Plans are directed at  
 introducing amateur radio to  
 as many Scouts as possible,  
 with expectations at roughly  
 3,000 Scouts and Guides



### Activities

In addition to the amateur  
 radio demonstration station, they'll  
 be running ARDF fox hunting activities using  
 80m and 2m.

Other activities planned are an ARISS  
 contact with an astronaut on the International  
 Space Station (pending successful Phase 2  
 equipment planning and scheduling), as well  
 as quite a few contacts with LEO satellites.  
 Plus, they'll be launching three Pico balloons  
 with WSPR payloads that are expected to  
 drift over the Atlantic during the Jamboree  
 and perhaps around the world long after  
 the Jamboree is over. Information on the  
 launches and tracking will be available on  
 the web and social media.

### NA1WJ Staff

The amateur radio team has been allocated  
 approximately 35 staff members. All are  
 active dedicated Scouting volunteers and  
 nearly all of them are licensed operators from  
 their home countries.

Currently, there are staff members from  
 the USA, Australia, Brazil, Canada, Chile,  
 Finland, Germany, Liechtenstein, Malaysia,  
 Nepal, Netherlands, Norway, Taiwan, United  
 Kingdom, and more are expected as the  
 event gets underway.

### NA1WJ equipment

The stations will be using the IC-7300,  
 IC-9700 and ID-5100A along with hex  
 beams, Yagis, verticals and dipoles. But  
 propagation will be challenging.

The station will be staffed approximately  
 18 hours each day but nightly operation is  
 planned when staff are available. Multiple  
 modes are planned including SSB, CW  
 and digital modes to take advantage of the  
 propagation.

**In July 2019 the 24th World Scout  
 Jamboree will open in the mountains  
 of West Virginia. The Summit Bechtel  
 Scout Reserve will host 45,000 Scouts  
 who will travel from over 160 countries  
 to experience adventure and learn  
 about other countries, other cultures  
 and make new friends.**

The World Scout Jamboree happens every  
 four years, having begun in 1920 in London.  
 In 1957, the 50th anniversary of Scouting,  
 the World Jamboree was again hosted by  
 Great Britain. There, GB3SP was on the air,  
 representing amateur radio for the first time.

In 1967 it was held in the USA for the first  
 time, with K7WSJ on the air from Farragut  
 State Park in Idaho. Since that time Scouts  
 have been on the air with 8J1WJ (Japan,  
 1971), LC1J (Norway, 1975), VE6WSJ  
 (Canada, 1983), AX2SWJ (Australia, 1987),  
 6K17WJ (South Korea, 1991), PA6WSJ  
 (The Netherlands, 1995), XR3J (Chile,  
 1999), E20AJ (Thailand, 2003), GB100J  
 (UK, 2007), SJ22S (Sweden, 2011) and  
 8N23WSJ (Japan, 2015).

In 2019 they will be using the callsign  
 NA1WJ, standing for North America's 1st  
 World Jamboree, hosted by a team of North  
 American Scouting organisations: Scouts  
 Canada, Asociación de Scouts de México  
 and Boy Scouts of America.

When the Jamboree opens, they'll be on

### Your Help

This is where you come in. Turn on your rig and  
 work NA1WJ. However, it's not just making  
 contacts with callsign and signal report. Instead,  
 it's demonstrating amateur radio by conducting  
 conversations with Scouts.

One staff member will be operating each  
 station along with four or more Scouts listening in  
 and getting on the microphone. You are needed  
 on the other side engaging in questions about  
 Scouting, about the Jamboree and commenting  
 on your own experiences in Scouting.

Single stations will work great. But it might  
 be a fabulous idea to line up a Scout summer  
 camp, Radio Badge Workshop, or a weekend  
 campout scheduled to match the days/times  
 of the World Jamboree to get other Scouts on  
 the air talking to the NA1WJ station.

### Schedule and frequencies

NA1WJ is expected to run from 11 July to  
 2 August but first transmissions are planned  
 around 18 July. The daily programme for  
 Scouts at the World Scout Jamboree is 1200  
 to 2100UTC. After these hours volunteering  
 staff will run the station and look out for your  
 contact.

NA1WJ will run on or around the Scout  
 frequencies of 3.940MHz, 7.190MHz,  
 14.290MHz, 18.140MHz, 21.360MHz,  
 24.960MHz, 28.390MHz and 50.160MHz.  
 NA1WJ will also be active on D-Star (Reflector  
 REF033A), DMR (TG 907/9071/9072, and  
 other specific talk groups) and Echolink  
 (Conference Node \*JAMBO\*).

Remko Welling, PE1MEW  
[pe1mew@pe1mew.nl](mailto:pe1mew@pe1mew.nl)

RadCom July 2019

July 2019

2ND ANNUAL  
**ROC CITY**  
*Net*  
80 meter - 3.826 (or about)  
Wednesday - 7:30 pm Eastern  
2 meter - Bristol 145.11 Repeater  
Sunday 7:30

**HAMFEST**

SATURDAY | AUGUST 24

**AT THE LOG CABIN RESTAURANT**

2445 W Walworth Road | Macedon, NY

SET UP: 6 AM | OPEN TO PUBLIC: 7 AM

- **Free admission!**
- **Many door prizes** provided by our sponsors
- Food available for purchase inside the Log Cabin Restaurant and through vendors onsite
- 11 acres for radio gear
- Bring your own tables for the swap meet/flea market
- VE Ham license testing

For more information, visit [roccitynethamfest.com](http://roccitynethamfest.com)

Talk In Channel: 145.11 Repeater (110.9PL)

SPONSORED BY



**QUESTIONS:** Joe Merolillo | [k2zx52@gmail.com](mailto:k2zx52@gmail.com) | 585.301.3650



# VE TEAM

The next **ALWAYS FREE** testing session:  
 Saturday September 15th (Third Saturday)  
 Rochester Institute of Technology  
 Kate Gleason College of Engineering  
 Gleason School of Engineering  
 Room 3139, Bldg. 9  
 Use "J" parking lot

Registration at 9:45AM  
 Testing at 10:00AM

You do not have to preregister.

To avoid giving your SSN go to:  
<http://wireless.fcc.gov/uls/index.htm?job=home>  
 Register and bring the resultant FRN to the exam.

For more info and a map:  
[https://rochesterham.org/license\\_testing.htm](https://rochesterham.org/license_testing.htm)

Don Kiser - AC2EV  
 RARA Board member  
 VE Team Leader  
 585-613-1035

--	--

New licensees names are in BOLD

## CW ELMERS

Name	Call	Area	Email
Ned Asam	W2NED	Pittsford	<a href="mailto:w2ned@frontiernet.net">w2ned@frontiernet.net</a>
Tim Brown	WB2PAY	Ogden	<a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>
Pete Fournia	W2SKY	Penfield	<a href="mailto:pfournia@gmail.com">pfournia@gmail.com</a>
Bill Hopkins	AA2YV	Brighton	<a href="mailto:whopkin4@naz.edu">whopkin4@naz.edu</a>
Bob Karz	K2OID	Webster	<a href="mailto:rkarz@rochester.rr.com">rkarz@rochester.rr.com</a>
Larry Lavery	WW2J	Fairport	<a href="mailto:ww2j@arrl.net">ww2j@arrl.net</a>
Joe Rowe	AG2Y	Webster	<a href="mailto:ag2y@rochester.rr.com">ag2y@rochester.rr.com</a>

## RADIO ELMERS

Name	Call	Area	Email
Tim Brown	WB2PAY	Ogden	<a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>
Dave Carlson	N2OA	Batavia	<a href="mailto:kdcarlso@gmail.com">kdcarlso@gmail.com</a>
Lawrence Hill	N2AJX	Henrietta	<a href="mailto:lawrence.hill@rit.edu">lawrence.hill@rit.edu</a>
Bill Kasperkoski	WB2SXY	Pittsford	<a href="mailto:wb2sxy@arrl.net">wb2sxy@arrl.net</a>
Don Kiser	AC2EV	N Greece	<a href="mailto:dkiser100@gmail.com">dkiser100@gmail.com</a>
Karl Heinz Kremer	K5KHK	Chili	<a href="mailto:k5khk@khk.net">k5khk@khk.net</a>
Tim Magee	WB2KAO	Greece	585-704-5747
Peter Schuch	WB2UAQ	Perinton	<a href="mailto:pschuch@rochester.rr.com">pschuch@rochester.rr.com</a>
Forest Shick	WA2MZG	Webster	<a href="mailto:fshick3@gmail.com">fshick3@gmail.com</a>
Dave Timmons	W2DST	N Greece	<a href="mailto:dstimmons@gmail.com">dstimmons@gmail.com</a>
Dan Waterstraat	W2DEW	Henrietta	<a href="mailto:higreen@rochester.rr.com">higreen@rochester.rr.com</a>

# **RARA CALENDAR**

TIM BARRETT, K9VB, MEMBERSHIP SECRETARY

**Sorry  
No Calendar  
For  
August  
Returning  
In September**



# NEWS FROM AREA CLUBS

## MONROE COUNTY ARES / RACES NEWS

Monroe County Amateur Radio Emergency Service (ARES)® is an amateur radio public service organization based in Monroe County, New York, and is open to all licensed amateur radio operators. Monroe County Radio Amateur Civil Emergency Service (RACES) is a program of the Monroe County Office of Emergency Management. We participate in training and emergency exercises so that we can serve other agencies during times of communication failure.



The Monroe County Amateur Radio Emergency Service, Inc. holds its meetings on the fourth Thursday of each month except in July, August and December. Anyone interested, members and non-members, are welcome to attend.

The next ARES Meeting will be held on: Thursday, September 29, 2019, 6:00 PM, at the Red Cross, 825 John St., W Henrietta. Meetings are held at the John St. building on odd numbered months. On even numbered months the meetings are held at the Monroe County EOC, 1190 Scottsville Rd. (Media Room, 2nd floor, north end). If the doors are locked, call WB2EOC on the 146.61 MHz (-) 110.9 Hz PL repeater.

Monroe County ARES/RACES meets on the air every Thursday of the month at 7:00 PM, on the 146.61 MHz (-) 110.9 Hz PL and 444.45 (+) 110.9 Hz PL repeaters. Our club callsign is WB2EOC. There is no net on nights when we hold our regular meeting, generally on the 4th Thursday of the month.

WEB: [www.monroecountymcomm.org](http://www.monroecountymcomm.org)

### Severe Weather Alerts:

Summer brings severe weather in the form of heavy thunder storms, strong winds, and flooding. If you experience severe weather, especially when accompanied by damage to property in your area, listen to your local ARES/RACES repeaters for information. While official ARES/RACES activation could be a possibility, it is more important that we open a spontaneous net simply to share information about weather conditions in your immediate area. Don't wait for someone else to do it. Pick up the microphone and start a net. Have each check-in station give you a situational awareness report and emergency power report. If you don't have a copy of the directed net protocol, you can find one at the WEB address listed above. (Activities/ARES Net/ Net Script/ Downloads). We encourage all amateur radio operators to take a free Skywarn TM class offered by the National Weather Service. The schedule of classes can be found at <https://www.weather.gov/buf/Skywarn>

## ROCHESTER DX ASSOCIATION, RDXA

RDXA meets the 3rd Tuesday of every month (September through June) except for December, which is the Annual Holiday Banquet. Meetings are open to everyone and all are encouraged to attend.



The next meeting is Tuesday September 17, 2019

Meetings are held at the Monroe County EOC 1190 Scottsville Rd. (second floor), Rochester, NY 14624 at 7:30PM.

## ROCHESTER RADIO REPEATER ASSOCIATION

The Rochester Radio Repeater Association, RRRA, will not be having meetings during months of July and August. On July 19, 2019 the RRRA VE team will be holding ARRL VE testing. The next scheduled RRRA membership meeting will be September 20, 2019. Meetings or VE testing are held on the 3rd Friday of the month in the Pittsford Town Hall Basement starting at 7:30 PM. ARRL VE testing fee is \$15.

Enjoy the Summer.

The RRRA officers should be based on current nominations, Bob Shewell, N2HJD, President, Bob ODell, N2BZX, Vice President, ED Wilkonski, KC2WM Secretary, and Bob Smith, NS2B, Treasurer / Membership Chairman. RRRA also accepts donations to the club. If you are not currently a member and want to support RRRA, you can join at our monthly meeting or on our web site [www.k2rra.org](http://www.k2rra.org)

## ROCHESTER VHF GROUP

The Rochester VHF Group sponsors an informal On-Air Net every Monday at 2100 local time on 144.260 MHz USB and a 6 Meter Net every Thursday at 2100 local on 50.200 MHz USB.

More club information can be found by visiting [www.rvhfg.org](http://www.rvhfg.org) or just calling in any Monday or Thursday night. All are welcome to check in to these nets.

## XXR AMATEUR RADIO CLUB

The XXR Amateur Radio Club meets the 2nd Thursday of each month. The meetings are 6PM at the Webster Recreation Center. Look for details on our website <http://xarc.us>

## DRUMLINS AMATEUR RADIO CLUB

The Drumlins Amateur Radio Club meets every third Wednesday of the month at 7:30 PM at the Wayne County EMO/Sheriff's Office 7376 State Hwy 31 #1000, Lyons, NY 14489. Doors open at 7 pm, meeting starts at 7:30 pm. Announcements will be made on the 146.685 repeater. The Drumlins ARC website address is <http://drumlinsarc.us/>

## AMATEUR RADIO ASSOCIATION OF THE SOUTHERN TIER, ARAST

ARAST meets the third Thursday of every month at the Town and Country Fire Department on Gardner Rd in Horseheads New York. Chemung County ARES (CCARES) meets the first Tuesday of the month except February at Harris Hill. See [www.ccares.info](http://www.ccares.info) for details. CCARES covers the entire area in Chemung, Schuyler and Steuben counties and all are welcome.

Communicators are needed to help out with the 2019 Wineglass Marathon on October 6, 2019 ( one week following the Hamfest) . If you would like to help out, contact the emergency coordinator: [emergencycoordinator@stny.rr.com](mailto:emergencycoordinator@stny.rr.com) .

The Paypal feature for this years hamfest is back on line. I've been told that the tickets are available now. Pre-sale tickets available from any board member.

2019 Hamfest will be the last Saturday of September 2019. Stay tuned for more details

Strong kids/safe kids will be held this year on August 24 at the Chemung County Fairgrounds. Contact Al KD2DGF([kd2dgf@gmail.com](mailto:kd2dgf@gmail.com)) to volunteer as a communicator.

Our website is still under construction. It is anticipated that construction will continue well into the year. Until that is finished check us out at [www.arast.info](http://www.arast.info) .

Don't forget to check out our repeaters when you visit the area. The N3AQ 147.36(+) and the 146.70(-) are the principal 2 meter repeaters. Also Echolink is available using the call sign KA2BED-R. Check it out. A full list of available repeaters that can be heard in the twin tiers area surrounding Chemung County can be found at [www.arst.info/arast\\_website/public/repeaters.php](http://www.arst.info/arast_website/public/repeaters.php) .

## COMMUNITY AMATEUR RADIO CLUB, CARC

If you are interested in being a part of this forward thinking and active club, visit us at a meeting or join us on one of our weekly nets. We meet at the Hoag Library (134 S. Main St. Albion, NY) on the first Saturday of each month at 7PM. Each meeting has a brief training/refreshers period with upcoming topics including: net protocol, repeater set-up/maintenance, and digital signaling. The club holds a net every Sunday evening at 8pm (winter) and 9PM (summer) - 0100 UTC Monday - on 147.585 simplex, and we host the Thursday Night Social Net,

Thursday at 8:30PM on 147.285+. We'd love to hear you check-in! Take a look at the club website for more info: [www.k2srv.org](http://www.k2srv.org)

## DIGITAL COMMUNICATIONS ASSOCIATION OF PERINTON, DCAP

DCAP members continue to experiment with leading edge digital communications modes. We were formed in 1994 to foster the development of local and regional packet radio networks using AX25 and TCP/IP. Today we have members using the club sponsored DSTAR repeater (KB2VZS on 444.8MHz), several personal and public [DSTAR hotspots](#) (using the dvprtr board), Yaesu fusion systems on non-club repeaters and DMR. The last mode is being enjoyed locally through a [DV-Mega-Raspberry Pi](#) combination. DCAP meets for breakfast at 7AM nearly every Saturday morning at [Rikki's Family Restaurant](#) in Fairport and everyone is welcome to join us. Talk in is on the KB2VZS analog repeater on 146.715 MHz with a PL of 110.9 Hz.

## KEUKA LAKE AMATEUR RADIO ASSOCIATION, KLARA

The purpose of our association is to:

- promote interest in Amateur Radio communication and advancement of the radio art.
- conduct programs, training, and exercises that enhance the skills of the members, and educate the community.
- develop ties with other services and establish relationships with community organizations.
- provide emergency communication services.
- promote enjoyable Amateur Radio related events.

The association was incorporated in 1991 and has been a vibrant part of the community ever since. We have a very active VE testing program. We also participate in numerous public events (the Wineglass Marathon and the Wine Country Classic Boat Regatta are two of the largest).

We operate a system of three repeaters (which are linked), providing a large area footprint for two meter FM amateur use. Please see our website for details. ([klara.us](http://klara.us))

Our meetings are held on the second Wednesday of each month at the Civil Defense and Fire Training Center on Route 54 in Bath, NY.

## SQUAW ISLAND AMATEUR RADIO CLUB, SIARC

The Squaw Island Amateur Radio Club (SIARC) meets every second Wednesday of the month at 7:30PM at the Ontario County Safety Training Facility, 2914 County Road 48, Town of Hopewell. We have License Exam Testing every other month which begins at 6:30PM. There will NOT be a meeting in August. The next SIARC Breakfast will be August 17th at 8:30AM at the Villager Restaurant in Canandaigua. <http://siarc.us/> 73's Steve Benton VP SIARC WB2VMR

**Squaw Island Amateur Radio Club (SIARC)** is planning for the Finger Lakes Triathlon. It will be held on Sunday, September 8, out of Canandaigua from about 6:30AM to 2:00PM. They could use a minimum of 14 operators to do the event justice. It is a big event that SIARC supports every year for Safety Communications, especially on the bike course, that runs out to Gorham, down to Rushville, and back to Canandaigua. The event raises money for the Mary Gooley Hemophilia Center. If you would like to participate, please contact Tom Sanders [kb2nci@arri.net](mailto:kb2nci@arri.net)

Day	Date	Event	Location	Contact
Friday	July 12-14	Musselman Triathlon	Geneva	<a href="mailto:kb2nci@arri.net">kb2nci@arri.net</a>
Sunday	September 8	Finger Lakes Triathlon	Canandaigua	<a href="mailto:kb2nci@arri.net">kb2nci@arri.net</a>
Sunday	October 6	Wine Glass Marathon	Steuben County	<a href="mailto:kb2nci@arri.net">kb2nci@arri.net</a>

## WESTSIDE AMATEUR RADIO CLUB

The mission of the Westside Amateur Radio Club is to provide emergency communications services to the community, to assist other civic organizations, to promote the technical craft of amateur radio through class training and testing, to mentor new members, and enhance fellowship among radio amateurs.

The Westside Amateur Radio Club meets on the first Tuesday of the month, 7PM, at the Prudential Kares Realty, 3313 Chili Ave., Rochester, NY 14624. Park / enter on the left side of the building and meet in the lobby.

The talk in repeater for all meetings is the WR2AHL Repeater 146.760MHz - 110.9. AllStar, Echolink, and web streaming connections are available. Website: <http://WestsideAmateurRadio.club>

## INTERLOCK ROCHESTER - K2HAX - ROCHESTER'S HACKERSPACE

Visit our website at <http://www.interlockroc.org/>, contact us at [info@interlockroc.org](mailto:info@interlockroc.org), or find us in #interlock on Freenode IRC.

## ROCHESTER MAKERSPACE

For more information visit <https://www.makerspacerochester.org/hamradio>

## GENESEE VALLEY AMATEUR RADIO ASSOCIATION

Email [n3dsp@lafireline.net](mailto:n3dsp@lafireline.net) for details.

## ASTRONOMY SECTION ROCHESTER ACADEMY OF SCIENCE

For more information visit <http://www.rochesterastronomy.org/>

## THE AMATEUR'S CODE

Originally written by Paul M. Segal, W9EEA (1928)

### THE RADIO AMATEUR IS:

<b>CONSIDERATE</b>	Never knowingly operating in such a way as to lessen the pleasure of others.
<b>LOYAL</b>	Offering loyalty, encouragement and support to other amateurs, local club, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.
<b>PROGRESSIVE</b>	With knowledge abreast of science, a well built and efficient station and operation beyond reproach.
<b>FRIENDLY</b>	With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.
<b>BALANCED</b>	Radio is an avocation, never interfering with duties owed to family, job, school or community.
<b>PATRIOTIC</b>	With station and skill always ready for service to country and community.





QRP Amateur Radio Club  
International

[www.qrparci.org](http://www.qrparci.org)



[https://  
chameleonanten-  
na.godaddysites.com/](https://chameleonantenna.godaddysites.com/)



[www.dxengineering.com](http://www.dxengineering.com)



[www.westmountainradio.com](http://www.westmountainradio.com)



[www.maxconus.com](http://www.maxconus.com)



[www.mfjenterprises.com](http://www.mfjenterprises.com)

HAM RADIO DELUXE



[www.hamradiodeluxe.com](http://www.hamradiodeluxe.com)



[www.tigertronics.com](http://www.tigertronics.com)



[www.nutsvolts.com](http://www.nutsvolts.com)



[www.hobbypcb.com](http://www.hobbypcb.com)



[Www.servomagazine.com](http://www.servomagazine.com)



[www.birdrf.com](http://www.birdrf.com)



[www.n3fjp.com](http://www.n3fjp.com)



[Melabs.com](http://Melabs.com)



MOSLEY ELECTRONICS, INC.

[www.mosley-electronics.com](http://www.mosley-electronics.com)



[www.universal-radio.com](http://www.universal-radio.com)

## Radio Society of Great Britain



<https://rsgb.org>



[Circuitcellar.com](http://Circuitcellar.com)



[www.audioexpress.com](http://www.audioexpress.com)



[www.cq-amateur-radio.com](http://www.cq-amateur-radio.com)

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## RARA MARKETPLACE

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Office Hours  
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Your advertisement will be seen by amateurs in Rochester, Monroe County, New York State, the United States and even the rest of the world. RAG circulation is approx. 4,500.

Contact us for details at

[editor@rochesterham.org](mailto:editor@rochesterham.org)

# RARA OFFICERS, DIRECTORS AND COORDINATORS

## OFFICERS

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<b>Vice-President:</b> Scott Theis, W2LW	(845) 774-9809	<a href="mailto:sa_theis@hotmail.com">sa_theis@hotmail.com</a>	<b>Secretary:</b> Mike Moore, KC2NM	(585) 721-0011	<a href="mailto:mikemoore@ieee.org">mikemoore@ieee.org</a>

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Tim Brown, WB2PAY	(585) 750-2087	<a href="mailto:tjbrown@rochester.rr.com">tjbrown@rochester.rr.com</a>	Karl Heinz Kremer, K5KHK	(585) 503-7214	<a href="mailto:k5khk@khk.net">k5khk@khk.net</a>

## ACTIVITY COORDINATORS

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<b>Club Station Trustee</b>	Jim DiTucci, N2IXD	<a href="mailto:n2ixd@arrl.net">n2ixd@arrl.net</a>	<b>Raffle Administrator</b>	Forest Shick, WA2MZG	<a href="mailto:wa2mzg@arrl.net">wa2mzg@arrl.net</a>
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<b>Media Communications</b>	Tim Guyot, KB1POP	<a href="mailto:timguyot@gmail.com">timguyot@gmail.com</a>	<b>Reward Points Administrator</b>	Tim Barrett, K9VB	<a href="mailto:tim.k9vb@gmail.com">tim.k9vb@gmail.com</a>
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<b>Membership Secretary</b>	Tim Barrett, K9VB	<a href="mailto:tim.k9vb@gmail.com">tim.k9vb@gmail.com</a>	<b>Webmaster</b>	Scott Theis, W2LW	<a href="mailto:webmaster@rochesterham.org">webmaster@rochesterham.org</a>



## ROCHESTER AREA RADIO CLUB CONTACTS

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### Amateur Radio Association of the Southern Tier (ARAST)

Thomas English, N2YJY: [n2yiy@arri.net](mailto:n2yiy@arri.net)

### Astronomy Section Rochester Academy of Science

Mark Minarich: [mminaric@rochester.rr.com](mailto:mminaric@rochester.rr.com)

### Community Amateur Radio Club (CARC)

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## SEPTEMBER RAG DEADLINE AUGUST 15, 2019



**RARA meets at 7PM on the first  
Wednesday of each month. Join us at:**

Seneca Waterways Council, BSA Headquarters  
2320 Brighton Henrietta Town Line Rd  
Rochester, New York 14623

### GET DIRECTIONS

## Rochester Area Repeater Listing

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